BRUHATH BENGALURU MAHANAGARA PALIKE

QUALITY CONTROL TEST REPORT

Name of Work: Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Civil Aim Consultants & Engineers

(Buildings Geo-Test & Highway Materials Testing Laboratory)

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NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

No.01, Satvika Nilaya,Opp.Widia Poorna Prajna School,Ramaiah Layout Nagasandra Bengaluru -560073.

QC ABSTRACT

Nameof Work: Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

SI. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	1:3:6	28.38 Cum	1	1	Cement Sand, Aggregates	One Test Per Lot
2	M20	61.98 Cum	5	5	Concrete Cube Compressive Strength	-
3	Steel	4.20 Tonne	1	1	-	-
4	M15	6.92 Cum	2	2	Concrete Core Compressive Strength	-

Cubes

0-5 Cum 1Set
6-15 Cum 2Set
16-30 Cum 3Set
31-50 Cum 4Set
Add 1set for extra 50Cum

CIVIL AIM CONSULTANTS ENGINEERS BANGALORE

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NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/SCT/W.No.10/2021-22

Date: 07.09.2021

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.
NAME OF THE WORK	:	Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.
SAMPLE ID	:	Cement (Dalmia OPC 53 Grade)
DATE OF MANUFACTURE		August - 2021
DATE OF TESTING		04.09.2021 to 07.09.2021
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part 5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part 5)	360 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Fineness (by dry Sieving on IS 90 micron Sieve)	IS-4031 (Part 1)	2.80m	Shall not be more than 10mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

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⇒ Any Query regarding the report must be reported within 30days from the date of testing.
⇒ The Results of the Materials tested meets the Standards and hence can be used for the work.

AE (NRP) SD

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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PH.No: 9591618639 GST IN:29CNWPD9510K1ZB Email:civilaimconsultants@gmail.com

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22 Date : 07.09.2021

TEST REPORT FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample Type/Size: : Sand

Date of test: : 04.09.2021 to 07.09.2021

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as Per IS. Specification IS383-1970 (Reaffirmed 2002)
1	Specific Gravity	2.65%	–
2	Silt Content	0.62%	Not More than 8%
2	Bulking of Sand	18.64%	–

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22

Date : 07.09.2021

TEST REPORT COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample Type/Size: : 20mm Aggregates

Date of test: : 04.09.2021 to 07.09.2021

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as Per IS. Specification IS383-1970 (Reaffirmed 2002)
1	Crushing Value (%)	26.92%	Max 45%
2	Specific Gravity	2.68%	–
3	Water Absorption	0.46%	–
4	Combined Flakiness & Elongation Index	25.99%	–

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22 Date : 07.09.2021

TEST REPORT COARSE AGGREGATES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample Type/Size: : 40mm Aggregates

Date of test: : 04.09.2021 to 07.09.2021

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as Per IS. Specification IS383-1970 (Reaffirmed 2002)
1	Crushing Value (%)	25.84%	Max 45%
2	Specific Gravity	2.67%	–
3	Water Absorption	0.58%	–
4	Combined Flakiness & Elongation Index	26.21%	–

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22 Date : 07.09.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of Work : Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Date of Testing : 07.09.2021

Material : Sand - Masonry Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	16	1.60	1.60	98.4	90-100
1.18	38	3.80	5.40	94.6	70-100
600 Micron	89	8.90	14.30	85.7	40-100
300 Micron	256	25.60	39.90	60.1	5-70
150 Micron	498	49.80	89.70	10.3	0-15

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For CIVIL AIM CONSULTANTS & ENGINEERS

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Smitha. N L
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Date : 07.09.2021

Job No.: CACE/BBMP/SCT/W.No.10/2021-22

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.**

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T), Contractor, Bangalore.**

Name of Work : Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Date of Testing : 07.09.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II	Remarks
10	0	0	0	100	100	
4.75	74	7.40	7.40	92.6	90-100	
2.36	138	13.80	21.20	78.8	75-100	**The Sample Confirms to Grading Zone-II**
1.18	182	18.20	39.40	60.6	55-90	
600 Micron	156	15.60	55.00	45.0	35-59	
300 Micron	229	22.90	77.90	22.1	8-30	
150 Micron	165	16.50	94.40	5.6	0-10	

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Authorised Signatory

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Date : 07.09.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.**

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T), Contractor, Bangalo**

Name of Work : Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Date of Testing : 07.09.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	178	3.6	3.6	96.4	95-100
10	2463	49.3	52.8	47.2	25-55
4.75	1956	39.1	91.9	8.1	0-10

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22

Date : 07.09.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.**

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T), Contractor, Bangalore.**

Name of Work : Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in W: Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Date of Testing : 07.09.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	184	1.23	1.23	98.77	95-100
20	8326	55.51	56.73	43.27	30-70
10	3256	21.71	78.44	21.56	10-35
4.75	2810	18.73	97.17	2.83	0-5

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Sumukha. N L
AE-W10

For CIVIL AIM CONSULTANTS & ENGINEERS

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Authorised Signatory

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22

Date : 08.09.2021

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of Work : Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Steel Dia/Length : 8mm,10mm, " Fe500 TMT Bars

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 08.09.2021

		For 8mm		For 10mm	
S.No	**Details**	**Test Reaults**	**Min Req. as per IS 1786-2008**	**Test Reaults**	**Min Req. as per IS 1786-2008**
1	Observed diameter of bar	8.00mm	8.00mm	10.00mm	10.00mm
2	Observed Wt/m Lemgth Kg/m	0.398	0.363	0.620	0.567
3	Proof Stress / Yield Stress, fy, N/mm^2	538	500.0	542	500.0
4	Bend / Re bend Test	Ok	-	Ok	-
5	Percentage of Elongation, %	15.00	12.00	16.50	12.00
6	Ultimate Tensile strength N/mm2	616	545	621	545

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22

Date: 23.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	16.09.2021	23.09.2021	8.169	335.2	14.90	15.42
2	16.09.2021	23.09.2021	8.184	349.6	15.54	
3	16.09.2021	23.09.2021	8.152	356.2	15.83	

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

Sumukha. N K
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AEE (VRP) SD

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22

Date: 14.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	16.09.2021	14.10.2021	8.194	500.2	22.23	22.31
2	16.09.2021	14.10.2021	8.166	516.5	22.96	
3	16.09.2021	14.10.2021	8.152	488.9	21.73	

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Smitha. NK
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For CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22

Date: 23.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	16.09.2021	23.09.2021	8.154	336.3	14.95	15.34
2	16.09.2021	23.09.2021	8.138	346.5	15.40	
3	16.09.2021	23.09.2021	8.169	352.8	15.68	

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22 Date: 14.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete for Raft

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	16.09.2021	14.10.2021	8.180	505.2	22.45	22.32
2	16.09.2021	14.10.2021	8.166	512.6	22.78	
3	16.09.2021	14.10.2021	8.146	488.9	21.73	

Note:

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2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.
4. The Results of the Materials tested meets the Standards and hence can be used for the work.

Sruthi. N K
AE W10

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah layout, Nagasandra, Bangalore - 560 073.
PH.No: 9591618639 GST IN:29CNWPD9510K1ZB Email:civilaimconsultants@gmail.com

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/SCT/W.No.10/2021-22 Date: 25.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	18.09.2021	25.09.2021	8.169	345.2	15.34	15.47
2	18.09.2021	25.09.2021	8.184	336.3	14.95	
3	18.09.2021	25.09.2021	8.172	362.8	16.12	

Note:

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4. The Results of the Materials tested meets the Standards and hence can be used for the work.

Geetha. N L
AE W10

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

AEE (VRP)

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22 Date: 16.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	18.09.2021	16.10.2021	8.184	505.2	22.45	22.52
2	18.09.2021	16.10.2021	8.169	516.2	22.94	
3	18.09.2021	16.10.2021	8.155	498.6	22.16	

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

AE in lo

BEE (VRP) SD

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22

Date: 25.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	18.09.2021	25.09.2021	8.166	336.3	14.95	15.32
2	18.09.2021	25.09.2021	8.159	345.2	15.34	
3	18.09.2021	25.09.2021	8.149	352.8	15.68	

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For CIVIL AIM CONSULTANTS & ENGINEERS

Smitha. N K
AE, N10

Authorised Signatory

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22 Date: 16.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	18.09.2021	16.10.2021	8.189	505.2	22.45	22.52
2	18.09.2021	16.10.2021	8.165	516.3	22.95	
3	18.09.2021	16.10.2021	8.146	498.6	22.16	

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Smitha. N L
AE W 10

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

AEE (URP) SD

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CIVIL AIM CONSULTANTS & ENGINEERS

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Date: 25.09.2021

Job No.: CACE/BBMP/SCT/W.No.10/2021-22

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	18.09.2021	25.09.2021	8.168	356.3	15.84	15.13
2	18.09.2021	25.09.2021	8.184	326.3	14.50	
3	18.09.2021	25.09.2021	8.173	338.5	15.04	

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For CIVIL AIM CONSULTANTS & ENGINEERS

Sumukha. N K
AE DIO

Authorised Signatory

AEE (VRP) SD

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22

Date: 16.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete for Wall

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	18.09.2021	16.10.2021	8.174	505.2	22.45	22.52
2	18.09.2021	16.10.2021	8.169	519.3	23.08	
3	18.09.2021	16.10.2021	8.155	495.6	22.03	

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Suvetha. NK
AE W10

For CIVIL AIM CONSULTANTS & ENGINEERS

AEE (VRP) SD

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CIVIL AIM CONSULTANTS & ENGINEERS

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22 Date: 28.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	21.09.2021	28.09.2021	8.165	266.8	11.86	12.33
2	21.09.2021	28.09.2021	8.152	276.2	12.28	
3	21.09.2021	28.09.2021	8.149	289.2	12.85	

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Suvetha .N.L
AE D16

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

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NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/SCT/W.No.10/2021-22

Date: 19.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	21.09.2021	19.10.2021	8.184	379.6	16.87	17.12
2	21.09.2021	19.10.2021	8.166	383.5	17.04	
3	21.09.2021	19.10.2021	8.152	392.6	17.45	

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Suvitha. N L
AE W 10

Authorised Signatory

AEE (VRP) SD

No.01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
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CIVIL AIM CONSULTANTS & ENGINEERS

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NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/SCT/W.No.10/2021-22 Date: 28.09.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	21.09.2021	28.09.2021	8.146	266.9	11.86	12.26
2	21.09.2021	28.09.2021	8.152	284.5	12.64	
3	21.09.2021	28.09.2021	8.182	276.2	12.28	

Note:

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For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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Job No.: CACE/BBMP/SCT/W.No.10/2021-22

Date: 19.10.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **M/s. Sumukha Core Tech (Prop. Sri. Venkatesh Prasad H T),** Contractor, Bangalore.

Name of the work : Providing Missing Covering Slabs at KNV 2nd Stage Kempanna Layout Venkatagiriyappa in Ward No.10 Doddabommasandra Vidyaranyapura Sub Division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{15}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)	Average Value (N/mm2)
1	21.09.2021	19.10.2021	8.169	382.9	17.02	
2	21.09.2021	19.10.2021	8.184	376.5	16.73	16.72
3	21.09.2021	19.10.2021	8.172	368.9	16.40	

Note:

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4. The Results of the Materials tested meets the Standards and hence can be used for the work.

AE No 10

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

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